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November 4, 2002

02-RF-02418

Mr. Arch Crouse Colorado Department of Public Health and Environment Air Pollution Control Division, SSP-B1 4300 Cherry Creek Drive South Denver, CO 80246-1530

AIR POLLUTANT EMISSION NOTICE FOR THE SOLAR PONDS CLOSURE PROJECT AT THE ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE (SITE) - AJR-046-02

Attached, please find an Air Pollutant Emission Notice (APEN), a check for the associated APEN fees, and supporting technical documentation for the Solar Ponds Closure Project. An APEN is being submitted to quantify particulate emissions from the project during soil disturbance activities.

The solar ponds were operated primarily to store and evaporate radioactive process wastes and neutralized acidic process wastes containing low concentrations of radionuclides. The closure of the solar ponds will involve removing any standing water within the ponds, pushing the berms into the ponds, adding clean fill to create a level area, and grading and vegetating the area.

Also attached, please find a dust control plan for the project, as requested by the state.

If you have any questions concerning this correspondence or the attached information, please contact me at (303) 966-3687 or Rob Garren at (303) 966-2609, digital page (303) 212-1653.

ndrew Rosenman

Environmental Systems and Stewardship

RMG:se

W. Prymak (DOE, RFFO)

Attachments: As Stated

CTION ITEM STATUS

NREPLY TO RFP CC

AUTHORIZED CLASSIFIER

**SIGNATURE** XEMPT FROM CLASS

PARTIAL/OPEN

ICLASSIFIED ONFIDENTIA

'ER CEX-105-01

CLOSED

TR APPROVALS:

YPIST INITIALS

ser Hill Company, L.L.C.

cky Flats Environmental Technology Site, 10808 Hwy. 93 Unit B, Golden CO 80403-8200 ◆ 303-966-7000





November 4, 2002

02-RF-02418

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**Andrew Rosenman** 

**Environmental Systems and Stewardship** 

RMG:se

cc.

W. Prymak (DOE, RFFO)

Attachments: As Stated

# 3

# AIR POLLUTANT EMISSION NOTICE

RM NAME U.S. De	partment of Energy,	Rocky Flats En	ivironmental Te	echnology Site, and	RM NAME U.S. Department of Energy, Rocky Flats Environmental Technology Site, and Kaiser-Hill Company, L.L.C.	V, L.L.C.		AIRS ID	PERMIT NO.		
All ADDRESS 10808 Highway 93, Unit B, Golden, Colorado 804032-8200	08 Highway 93, Uni	it B, Golden, Cc	lorado 80403;	2-8200 PLA	PLANT LOCATION Section 2, Range 70W, Township 25	ion 2, Range 70W,	Township 25		COUNTY Jefferson	efferson	
ERSON TO CONTACT REGARDING THIS INFORMATION	T REGARDING TI	HIS INFORMA	TION Andrea	senma		THEP	ogram Manager,	Air Permitting, 1	TITLE Program Manager, Air Permitting, Kaiser-Hill, L.L.C. P	PHONE (303) 966-3687	
ENERAL DESCRIPTION OF THIS PLANT'S FUNCTION	TON OF THIS PLA	NT'S FUNCTION		Environmental Restoration and	nd Waste Management		E E	FEDERAL TAX LD. NO.	VO. 84-1296851		
A. GENERAL INFORMATION	RMATION	Normal Operation of Plant			Process Seasonal Throughput (% of Annual)	roughput (% of An		DDITIONAL IN	ADDITIONAL INFORMATION OR REMARKS	REMARKS:	
No. of Employees 2,570	Land Area   1 6,521.9 ares	Hours/Day 24	Hours/Year 8,760	Days/Week 7	Dec-Feb Mar-May 25 25	y Jun-Aug 25	Vov S	N/A = Not Applicable	ble		
B. STACK OR VENT INFORMATION	IT INFORMATION	(Identify belov	which stack i	if plant has two or	(Identify below which stack if plant has two or more; refer to attached sketch of plant layout)	d sketch of plant Is					
Height N/A	Diameter N/A ft	Temperat	- H	Flow Rate N/A ACFM	Velocity M N/A	Moisture ft/min	N/A %	Plant ID No. for Stack Solar Pond Closure (so	Plant ID No. for Stack Solar Pond Closure (soil disturbance activities)	vities)	
FUEL INFORMATION	TION		Design Rate	ite Kind of Firel		Annual Fuel Consumption	Fuel Heating Value:		y Weight Seasonal F	Per Cent by Weight Seasonal Fuel Use (% of Annual Use)	Space Htg
Description of Combustion Unit		N/A	(10° BTU/HR)	IR) Burned	Pequestal lang.	Data year level	(BTU/lb, BTU/gal, or BTU/SCF)	al, or Sulfur	Ash Dec-Feb M	Dec-Feb Mar-May Jun-Aug Sep-Nov	(% Alilli.)
dake/Model:											
Serial No.											
O PROCESS INFORMATION	MATION		Raw	Raw Materials Used	Raw Materials-Annual Consumption	al Consumption	Design Rate	_	Finished Product	Finished Product-Annual Output	Output
Description of Processing Unit		N/A		1 1	Wegucapolipasii	Data year level	(Specify Units/Hour)		Description	Oata y	Data year level
Make/Model:											
Serial No.:	į									,	
E. POLLUTION CONTROL EQUIPMENT	TROL EQUIPMEN	Į.	Overall		SN(0) SSYME GEN	ACTUAL	ESTI	ESTIMATION	CHBCK /	CHECK ALL BOXES THAT APPLY	
Pollutant	Type of Control Equipment	uipment	- Collection Efficiency			S EMISSIONS (DATA YEAR)		METHOD	<ul> <li>New or previously unreported sou</li> <li>Modification of existing permit†‡</li> </ul>	New or previously unreported source* Modification of existing permit†  ### Addition of existing permit   ###	
Æ	Primary	Secondary	· ·	TOOM BOILE						Change in emissions, throughputs or equipment	t‡ DEMADIYO
ulate	NA	N/A	N/A	75.5		N/A	-	AP-42		transfer of ownersing (List previous owner in recommens	THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SE
o	N/A	N/A	V/X			N/A		AP-42		roet	
ŠČ.										expiring‡	
VOC									<ul> <li>☐ Mandatory update</li> <li>☐ Request for Emiss</li> </ul>	Mandatory update or octened reportings Request for Emission Reduction Credit†	
8			_							Complete all applicable portions of APEN	
PLEASE ÚSE APCD HAP ADDÉNDUM FORM TO REPORT	SHAP ADDENDU	M FORM TO R	EPORT THEP	□ CHECK	CHECK HERE IF YOU WISH THE DIVISION TO CALCULATE YOUR	THE DIVISION	TO CALCUL	ATE YOUR	† Complete shaded at Complete all infor	Complete shaded areas ('Requested' values)  Complete all information above box A, and those	ose.
POLLUTANTS NOT LISTED ABOVE.	I LISTED ABOVE.	O NO SMOJES		EMISSIONS	EMISSIONS, SEE "EMISSION ESTIMATES" INSTRUCTIONS ON BACK.	ESTIMATES" IN	STRUCTIONS	ON BACK.	remaining portions	remaining portions which reflect changes	
Signature of Person Legally Authorized to Supply Data: Konn North Manager Fruitconnental Systems & Stewartshin, Kaiser-Hill, L.L.C.	Legally Authorized	to Supply Data:	undship. Kaiser-		Haran "	yrech		11/4/02	Year for which th	Year for which the actual data applies: 2002	
Signature of Percon Legally Authorized to Supply Data	Feeslly Authorized	to Sunniv Data:	i d						Date source began	Date source began or will begin operation:	
William J. Prymak, DOE, RFFO	DOE, RFFO	MIII	<b>)</b>		1/4/02					November 2002	
THIS NOTICE IS expiration date, wh	THIS NOTICE IS VALID FOR FIVE YEARS. A revised notice shall be filed prior to expiration date, whenever a permit limitation must be modified, whenever control	E YEARS. A re mitation must b	vised notice sl	hall be filed prior benever control	કાર	\$119,96 FILING FEE IS REQUIRED FOR EACH NOTICE FILED.	REQUIRED ILED.	Mail to: CDPHE, APCD	e e	APEN # 1	. OF 1
equipment is chang specific details see	equipment is changed, and annually whenever a significant emission change occurs. For specific details see Regulation 3, Part A, § ILC.1.	whenever a sign A, § II.C.1.	nificant emissi	on change occurs.		For information, call (303)692-3150.	92-3150.	4300 Cherry	4300 Cherry Creek Drive South	ATRS ID (APCD USE)	D USE)
					APCD FORM 288A (993)	4 (993)		Leaved, Coll.	tauc court soc		

# Kaiser-Hill Environmental Systems and Stewardship Rocky Flats Environmental Technology Site

# Solar Ponds Closure Project APEN Submittal Report

### November 4, 2002

### Introduction

This report provides supporting information to the Colorado Department of Public Health and Environment, Air Pollution Control Division (CDPHE, APCD) for submittal of an Air Pollutant Emission Notice (APEN) form quantifying particulate emissions from the closure of solar evaporation ponds at the Rocky Flats Environmental Technology Site.

This information and the associated APEN are being transmitted to the CDPHE, APCD to meet the requirements of Colorado Air Quality Control Commission Regulation No. 3. The reportable criteria pollutants are particulates (both particulate matter less than 10 micrometers in diameter [PM10] and total particulate matter [PM]).

### Background

Operations at the Site resulted in the generation of process wastewater containing radioactive and hazardous waste constituents that were managed in various waste-processing units. The solar ponds, located in the northeastern portion of the former protected area boundary, were used to process wastewater from 1953 to 1986. The solar ponds consist of five existing surface impoundments designated as 207-A, 207-B North, 207-B Center, 207-B South, and 207-C.

The solar ponds were operated primarily to store and evaporate radioactive process wastes and neutralized acidic process wastes containing primarily low concentrations of radionuclides. A complete operational history of pond activities and remedial efforts is contained in the *Draft RCRA Closure of the RFETS Solar Evaporation Ponds Proposed Action Memorandum*, dated August 28, 2002, currently out for public review and comment.

### **Project Description**

Closure of the ponds will involve removing any standing water within the ponds, pushing the berms into the ponds, adding clean fill to create a level area, and grading and vegetating the area. The Site plans to use 39,000 cubic yards of clean soil from adjacent areas to supplement the berm soil during contouring activities. Grading will be performed to conform to the topography of the surrounding area and to provide adequate site drainage. The area will be vegetated with native grass species.

### APEN Submittal Information

An APEN form is provided with this report. Reportable particulate emissions will be generated during soil disturbance activities. Radionuclide emissions were quantified and were below any reporting or monitoring threshold. Per the Rocky Flats Cleanup Agreement, a construction permit is not required for this type of activity.

### **Emissions**

Particulate air pollutant emissions were calculated for various soil disturbance activities utilizing emission factors from the "Compilation of Air Pollutant Emission Factors," EPA, AP-42. The reported emissions listed below are uncontrolled. No credit was taken for control methodologies (watering, dust suppression techniques, etc.).

The following table provides a summary of particulate emissions from remediation activities:

### **Emissions Summary Table:**

Emissions Summary Table:	Particulate Emissions (Tons per year)	PM-10 Emissions (Tons per year)
Unpaved Road Emissions (AP-42, 13.2.2, 9/98 file via Internet with dust control constants from Actinide Study)	3.87E+00	4.57E-01
Soil Handling w/ Front end Loader (AP-42, 13.2.4, unloading clean fill)	3.29E-02	1.56E-02
Graders/Scrapers for Pond Area (AP-42, Section 11.9, Table 11.9-4, scraper emission factor for top soil)	1.79E+00	4.64E-01
Excavation with Backhoe of Clean Fill (AP-42, Section 11.9, Table 11.9-2)	1.21E-01	4.75E-02
Bulldozer for Moving Soil (AP-42, Table 11.9.2)	4.16E-01	8.11E-02
Total Emissions:	6.23E+00	1.07E+00

### - LAND DEVELOPMENT

# FUGITIVE DUST CONTROL PLAN FOR LAND DEVELOPMENT

(This must be submitted with the Air Pollutant Emission Notice-and-Application for Emission Permit)

Regulation No. 1 requires that a fugitive dust control plan be submitted by applicants whose source / activity results in fugitive dust emissions. The control plan must enable the source to minimize emissions of fugitive dust to a level that is technologically feasible and economically reasonable. If the control plan is not adequate in minimizing emissions a revised control plan may be required. The control plan (if acceptable to the Division) will be used for enforcement purposes on the sources.

Please check the dust control measures which you propose for your activity. The Division will enforce the control measures checked. Use separate sheets if more space is needed. Also note items with an asterisk (\*). This indicates those measures which will probably be required.

1.	Contro	of Unpaved Roads on Site
	<b>I</b>	Watering
		Frequent (Watering Frequency of 2 or More Times Per Day)
		As Needed
		Application of Chemical Stabilizer
	<u>u</u>	Vehicle Speed Control
		Speeds limited to mph maximum. Speed limit signs must be posted.
		(Generally 30 mph is maximum approvable speed on site.)
		Gravelling
П.	Control	of Disturbed Surface Areas on Site
		Watering
		Frequent (Watering Frequency of 2 or More Times Per Day)
		As Needed
		Application of Chemical Stabilizer
		Vehicle Speed Control
		Speeds Limited To MPH Maximum. Speed Limit Signs Must Be Posted.
	52	Revegetation Revegetation Must Occur Within One Year Of Soil Disturbance
		Seeding with mulch
		☐ Seeding without mulch
		Furrows at right angle to prevailing wind
		Depth of furrows Inches (must be greater than 6")
		Compaction Of Disturbed Soil On A Daily Basis To Within 90 % Of Maximum Compaction
		(As determined by a Proctor Test).
		Foundation areas only; or
		☐ All disturbed soil.
		Wind Breaks
		Type: (Example: Snow Fence, Silt Fence, etc.)
		Synthetic Or Natural Cover For Steep Slopes.
		Type: (Netting, Mulching, etc.)

Colorado Department of Public Health and Environment Air Pollution Control Division

# - LAND DEVELOPMENT -

Ш.	Preventi	ion Of Mud And Dirt Ca	rried Out Onto Pave	d Surfaces.		•	
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		Cleanup of Paved Are		equency:	Time	s Per Day	<del></del>
		☐ Street Sweep				•	
		Hose With V		•			
		Other:				•	
E T	List any IRRA's Remo	ces of Emissions other sources of emission where Scame	S WILL ROM	NE SOLL WI AST ONE D	EBICATED "	4000 gm	·år
		RUCE AN THE SPACE					t :
54	UT DOWN	OPERATIONS WHE	N WIND STEE	DS ARE SE	TAINED ABO	OVE 30 MPH.	
		a Responsible Official (  omas M.  e print)	nindsa not a vendor or cons	iditant)	Date	roloz Field M Ponds	<u>Vanag</u>
Check		opriate box if you want					
;	Copy o	of the Preliminary Analysi	s conducted by the D	ivision		•	
	☐ To revi	iew a draft of the permit p	rior to issuance				
(Check	ing any of	these boxes may result	n an increased fee a	nd/or processing tir	ne)		
		ong with \$119.96 to: 692-3150	Colorado Depar Air Pollution Co APCD-SS-B1 4300 Cherry Cr Denver, CO 802	eek Drive South	ealth and Enviro	nment	
Small	Business A	Assistance Program					
	592-3148						
	Business (	<u>Ombudsman</u>					

